

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER H&A-5202 Filed Feb 13, 2006 10/568184
INTERNATIONAL APPLICATION NO. PCT/JP03/10374	INTERNATIONAL FILING DATE August 15, 2003	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/568184
TITLE OF INVENTION SPARK IGNITION ENGINE AND METHOD OF CONTROLLING COMBUSTION OF THE ENGINE		
APPLICANT(S) FOR DO/EO/US Yoshihiro SUKEGAWA, Noboru TOKUYASU, Junichi YAMAGUCHI, Hiroshi FUJII		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 		
Items 11 to 20 below concern document(s) or information included:		
<ol style="list-style-type: none"> 11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 		

U.S. APPLICATION NO. (if known) (See 37 CFR 1.5) 10/268184	INTERNATIONAL APPLICATION NO. PCT/JP03/10374	ATTORNEY'S DOCKET NUMBER H&A-5202																																																																							
20. Other items or information: Figs. 1-71, Credit Card Payment Form, Notification of Recording of the Change, International Search Report w/cited Refs.--																																																																									
The following fees have been submitted		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">CALCULATIONS</th> <th style="text-align: left;">PTO USE ONLY</th> </tr> <tr> <td style="padding: 5px;"> 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300 \$ 300.00 </td> <td></td> </tr> <tr> <td style="padding: 5px;"> 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200 \$ 200.00 </td> <td></td> </tr> <tr> <td style="padding: 5px;"> 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500 \$ 400.00 </td> <td></td> </tr> <tr> <td style="padding: 5px;"> TOTAL OF 21, 22 and 23 = 900.00 </td> <td></td> </tr> <tr> <td colspan="2" style="padding: 5px;"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. </td> <td></td> </tr> <tr> <td style="padding: 5px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total Sheets</th> <th style="text-align: left;">Extra Sheets</th> <th style="text-align: left;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="text-align: left;">RATE</th> </tr> <tr> <td>99 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250</td> </tr> </table> \$ 0.00 </td> <td></td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). </td> <td style="padding: 5px;"> \$ 0.00 </td> </tr> <tr> <td style="padding: 5px;"> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">CLAIMS</th> <th style="text-align: left;">NUMBER FILED</th> <th style="text-align: left;">NUMBER EXTRA</th> <th style="text-align: left;">RATE</th> </tr> <tr> <td>Total claims</td> <td>36 - 20 =</td> <td>16</td> <td>x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td>13 - 3 =</td> <td>10</td> <td>x \$200</td> </tr> </table> </td> <td style="padding: 5px;"> \$ 800.00 \$ 2000.00 </td> <td></td> </tr> <tr> <td colspan="2" style="padding: 5px;"> MULTIPLE DEPENDENT CLAIM(S) (if applicable) </td> <td style="padding: 5px;"> \$ 0.00 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> TOTAL OF ABOVE CALCULATIONS = </td> <td style="padding: 5px;"> \$ 3700.00 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. </td> <td></td> </tr> <tr> <td colspan="2" style="padding: 5px;"> SUBTOTAL = </td> <td style="padding: 5px;"> \$ 0.00 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). </td> <td style="padding: 5px;"> \$ </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> TOTAL NATIONAL FEE = </td> <td style="padding: 5px;"> \$ 3700.00 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property </td> <td style="padding: 5px;"> \$ </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> TOTAL FEES ENCLOSED = </td> <td style="padding: 5px;"> \$ 3700.00 </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> </td> <td style="padding: 5px;"> Amount to be refunded: \$ </td> </tr> <tr> <td colspan="2" style="padding: 5px;"> </td> <td style="padding: 5px;"> Amount to be charged \$ </td> </tr> </table>	CALCULATIONS	PTO USE ONLY	21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300 \$ 300.00		22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200 \$ 200.00		23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500 \$ 400.00		TOTAL OF 21, 22 and 23 = 900.00		<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total Sheets</th> <th style="text-align: left;">Extra Sheets</th> <th style="text-align: left;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="text-align: left;">RATE</th> </tr> <tr> <td>99 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250</td> </tr> </table> \$ 0.00	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	99 - 100 =	0 /50 =	0	x \$250		Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 0.00	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">CLAIMS</th> <th style="text-align: left;">NUMBER FILED</th> <th style="text-align: left;">NUMBER EXTRA</th> <th style="text-align: left;">RATE</th> </tr> <tr> <td>Total claims</td> <td>36 - 20 =</td> <td>16</td> <td>x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td>13 - 3 =</td> <td>10</td> <td>x \$200</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	36 - 20 =	16	x \$ 50	Independent claims	13 - 3 =	10	x \$200	\$ 800.00 \$ 2000.00		MULTIPLE DEPENDENT CLAIM(S) (if applicable)		\$ 0.00	TOTAL OF ABOVE CALCULATIONS =		\$ 3700.00	<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.			SUBTOTAL =		\$ 0.00	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$	TOTAL NATIONAL FEE =		\$ 3700.00	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$	TOTAL FEES ENCLOSED =		\$ 3700.00			Amount to be refunded: \$			Amount to be charged \$
CALCULATIONS	PTO USE ONLY																																																																								
21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300 \$ 300.00																																																																									
22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200 \$ 200.00																																																																									
23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500 \$ 400.00																																																																									
TOTAL OF 21, 22 and 23 = 900.00																																																																									
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																																																																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Total Sheets</th> <th style="text-align: left;">Extra Sheets</th> <th style="text-align: left;">Number of each additional 50 or fraction thereof (round up to a whole number)</th> <th style="text-align: left;">RATE</th> </tr> <tr> <td>99 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250</td> </tr> </table> \$ 0.00	Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE	99 - 100 =	0 /50 =	0	x \$250																																																																	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE																																																																						
99 - 100 =	0 /50 =	0	x \$250																																																																						
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ 0.00																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">CLAIMS</th> <th style="text-align: left;">NUMBER FILED</th> <th style="text-align: left;">NUMBER EXTRA</th> <th style="text-align: left;">RATE</th> </tr> <tr> <td>Total claims</td> <td>36 - 20 =</td> <td>16</td> <td>x \$ 50</td> </tr> <tr> <td>Independent claims</td> <td>13 - 3 =</td> <td>10</td> <td>x \$200</td> </tr> </table>	CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	Total claims	36 - 20 =	16	x \$ 50	Independent claims	13 - 3 =	10	x \$200	\$ 800.00 \$ 2000.00																																																												
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																																																																						
Total claims	36 - 20 =	16	x \$ 50																																																																						
Independent claims	13 - 3 =	10	x \$200																																																																						
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		\$ 0.00																																																																							
TOTAL OF ABOVE CALCULATIONS =		\$ 3700.00																																																																							
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.																																																																									
SUBTOTAL =		\$ 0.00																																																																							
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$																																																																							
TOTAL NATIONAL FEE =		\$ 3700.00																																																																							
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property		\$																																																																							
TOTAL FEES ENCLOSED =		\$ 3700.00																																																																							
		Amount to be refunded: \$																																																																							
		Amount to be charged \$																																																																							

10/568184

IAP20 Rec'd PCT/PTO 13 FEB 2006

- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-1417. A duplicate copy of this sheet is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Shrinath Malur
1800 Diagonal Road, Suite 370
Alexandria, VA 22314


SIGNATURE

Shrinath Malur

NAME
34,663

REGISTRATION NUMBER